

JP 06-330443

JP 06-330,443

[Claims only, as requested]

Translated from Japanese by the Ralph McElroy Translation Company,
Custom Division, P.O. Box 4828, Austin, TX 78765 USA

Code: 282-42856

JAPANESE PATENT OFFICE

PATENT JOURNAL

KOKAI PATENT APPLICATION NO. HEI 6[1994]-330443

Technical Disclosure Section

Int. Cl. ⁵ :	D 04 H 1/46 A 61 F 13/15 D 04 H 1/54 A 41 B 13/02 A 61 F 13/18
Sequence Nos. for Office Use:	B-7199-3B Z-7199-3B 2119-3B 7603-4C
Application No.:	Hei 5[1993]-116104
Application Date:	May 18, 1993
Publication Date:	November 29, 1994
No. of Claims:	3 (Total of 7 pages)
Examination Request:	Not requested

PRODUCTION OF SHEET WITH STEREOSCOPIC PERFORATIONS
AND ITS APPARATUS

Inventors:	Seizo Maejima Toko Haiystu 403 4-18-1, Motoimaizumi, Utsunomiya-shi, Tochigi-ken
------------	--

Ayumi Saka
4594, Haniwa,
Ichigai-cho, Haga-gun,
Tochigi-ken

Yukio Yamahara
2910-61, Matsuri-cho,
Kamido, Utsunomiya-shi,
Tochigi-ken

Applicant:

000000918
Kao Corp.
1-14-10, Nihonbashi,
Kayaba-cho, Chuo-ku,
Tokyo

Agent:

Osamu Hatori, patent
attorney

[There are no amendments to this patent.]

*

*

*

Claims

1. Production of sheets containing stereoscopic perforations, characterized by feeding the sheets between a first presser on which multiple parallel columns of multiple pyramidal or conical pins have been arranged, and a second presser on which projections have been inserted between the columns, in order to form stereoscopic perforations.

2. An apparatus for producing sheets containing stereoscopic perforations, characterized as consisting of a pin roll that rotates and which is situated in the region where the sheets are fed and which is made by stacking pin disks having many pyramidal or conical pins along the circumference into a projecting roll

which faces the above-mentioned pin roll across the above-mentioned sheet at a specific distance, and by stacking projection disks whose circumference is inserted between the multiple columns where the above-mentioned pins have been arranged when the above-mentioned pin disks are stacked.

3. The apparatus for producing sheets with stereoscopic perforations described in Claim 2, characterized by containing a heating mechanism capable of partially softening or melting the above-mentioned sheets in at least one of the above-mentioned pin roll and above-mentioned projecting roll.

*

*

*